

## IN THE CLAIMS

1. A catalyst suitable for use in hydrocarbon feedstock cracking comprising particles composed of:
  - i) at least 70 weight percent of zeolite; and
  - ii) remainder comprising a sol selected from the group consisting essentially of silica sol, alumina sol or mixtures thereof.
2. The catalyst of Claim 1 wherein the catalyst has a kinetic conversion activity of at least about 3.
3. The catalyst of Claim 2 wherein the catalyst has a Davison Attrition Index of less than 20.
4. The catalyst of Claim 3 wherein the catalyst particles have a H<sub>2</sub>O pore volume of greater than 0.32 cc/g.
5. The catalyst of Claim 1 wherein the zeolite is present in from 70 to 90 weight percent.
6. The catalyst of Claim 2 wherein the zeolite is present in from 70 to 90 weight percent.
7. The catalyst of Claim 3 wherein the zeolite is present in from 70 to 90 weight percent.
8. The catalyst of Claim 4, 5, 6 or 7 wherein the zeolite is selected from a Y zeolite.

9. The catalyst of Claim 8 wherein the zeolite is selected from USY, REY, REUSY, CREY, CREUSY or mixtures thereof.
10. The catalyst of Claim 9 wherein the zeolite is CREY zeolite.
11. The catalyst of Claim 1, 2, 3, 4, 5, 6, or 7 wherein the sol is an alumina sol.
12. The catalyst of Claim 8 wherein the sol is an alumina sol
13. The catalyst of Claim 9 wherein the sol is an alumina sol
14. The catalyst of Claim 10 wherein the sol is an alumina sol
15. The catalyst of Claim 1, 2, 3, 4, 5, 6 or 7 wherein the sol is a silica sol.
16. The catalyst of Claim 8 wherein the sol is a silica sol.
17. The catalyst of Claim 9 wherein the sol is a silica sol.
18. The catalyst of Claim 10 wherein the sol is a silica sol.
19. The catalyst of Claim 11 wherein the catalyst is in the form of particulates having an average diameter of from 50 to 150 microns.
20. The catalyst of Claim 16 wherein the catalyst is in the form of particulates having an average diameter of from 50 to 150 microns.
21. A catalyst composition useful in cracking of hydrocarbon feedstock comprising
- a) first particulate material composed of at least 70 weight percent zeolite and the remainder substantially composed of silica sol,

alumina sol or mixtures thereof; wherein said first particulate material has a kinetic conversion activity of at least about 3; and  
b) second particulate material having a kinetic conversion activity of less than 3;  
said catalyst composition having a kinetic conversion activity of from at least about 2 to about 3.

22. The composition of Claim 21 wherein the first particulate material comprises from 70 to 95 weight percent zeolite.
23. The composition of Claim 21 wherein the zeolite of the first particulate material is selected from a Y type zeolite.
24. The composition of Claim 22 wherein the zeolite of the first particulate material is selected from a Y type zeolite.
25. The composition of Claim 23 wherein the zeolite of the first particulate material is selected from USY, REY, REUSY, CREY or CREUSY type zeolite or mixtures thereof.
26. The composition of Claim 24 wherein the zeolite of the first particulate material is selected from USY, REY, REUSY, CREY or CREUSY type zeolite or mixtures thereof.
27. The composition of Claim 25 wherein the zeolite of the first particulate material is a CREY zeolite.
28. The composition of Claim 26 wherein the zeolite of the first particulate material is a CREY zeolite.
29. The composition of Claim 21, 22, 23, 24, 25, 26, 27 or 28 wherein the sol of the first particulate material is an alumina sol.

30. The composition of Claim 21, 22, 23, 24, 25, 26, 27 or 28 wherein the second particulate material has a kinetic conversion activity of less than 1.
31. The composition of Claim 24 wherein the second particulate material is an FCC additive selected from combustion promoters, nickel passivators, vanadium passivators, sulfur reduction agents, nitrogen reduction agents or mixtures thereof.

For reference